

*File 18*

## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

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COUNTRY	Rumania/USSR	REPORT	
SUBJECT	1. Gun Laying Radar Near Bucharest 2. Radar on Rumanian and Soviet Ships	DATE DISTR.	26 October 1954
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		REFERENCES	25X1

USAF review completed.

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.  
THE APPRAISAL OF CONTENT IS TENTATIVE.  
(FOR KEY SEE REVERSE)

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25 YEAR RE-REVIEW

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STATE #	X	ARMY #	X	NAVY #	X	AIR #	X	FBI		AEC			
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REPORT

COUNTRY Rumania/USSR

DATE DISTR. 6 Oct 1964

SUBJECT 1. Gun Laying Radar near Bucharest  
2. Radar on Rumanian and Soviet Ships

NO. OF PAGES 6

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THIS IS UNEVALUATED INFORMATION

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1. In October 1951,

the Rumanian AAA had just begun to incorporate gun-laying radar into AA positions and, that at the particular site [redacted] there was a World War II German gun-laying radar "Fledermaus". [redacted] called "laboratory" (possibly for repair and maintenance) and [redacted] was located outside of Bucharest in the direction of the Baneasa Forest.

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2.

[redacted] observed four different types of radar on Soviet or Rumanian ships.

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25 YEAR RE-REVIEW

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- a. Type-1. (see Annex A). This equipment was a U.S. lend-lease radar

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[redacted] It consisted of an opaque plastic dome 50 cm. x 30 cm..  
mounted on a wooden brace 2½-3 meters high. [redacted] saw this type 25X1  
of radar on the Soviet icebreaker, SIBERIAKOV;  
[redacted] in Leningrad harbor / also saw this radar mounted on the bow of a Soviet patrol boat

[redacted] The patrol boat, made of wood, was 7 m. long  
with a 3 m. beam and mounted a heavy machine gun aft. Several of 25X1  
these patrol boats were observed in Poti harbor.

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- b. Type-2. (see Annex B).

this model was a Soviet

25X1

radar reflector. It was mounted on the icebreaker, SIBERIAKOV,  
but did not appear to be in operation. [redacted] saw this type of  
radar antenna mounted on four or five Soviet mine-sweepers which  
cleared the mine fields outside of Constanta harbor during summer  
1952.

[redacted] a common type navigational radar

25X1

on Soviet commercial vessels.

25X1

[redacted] on Soviet ships, when  
they were not rotating through a 360° arc, the antenna always faced  
the bow of the ship when not in operation. This Soviet radar  
reflector was made of solid metal sheet and there were some criss-  
crossed braces (see side view, Annex B) on the back side of the  
reflector which [redacted] were part of the reflector because it 25X1  
was originally moulded or stamped.

- c. Type-3. (see Annex C).

[redacted] this was a fire-control

25X1

radar, as it was located below the fire control center of the KIROV-  
class heavy cruiser, KAGANOVICH, which was tied up in Poti harbor  
in September 1953.

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[redacted] This radar reflector appeared to  
be a solid metal trough from which six straight metal rods, mounted  
horizontally, protruded. Each rod carried an array of small tubes,  
or rods, which were mounted perpendicular to each of the longer  
straight metal rods.

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- d. Type-4. (see Annex D).

[redacted] saw this type of antenna on two of

the three destroyers in the Rumanian fleet in 1951 when the destroy-  
ers first returned from the USSR, where they had possibly been  
repaired; June 1954 was the last time [redacted] saw this antenna.

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4.

4 Enclosures

Annex A -  
Annex B -  
Annex C -  
Annex D -

Sketch of Type-1 Radar  
Sketch of Type-2 Radar  
Sketch of Type-3 Radar  
Sketch of Type-4 Radar

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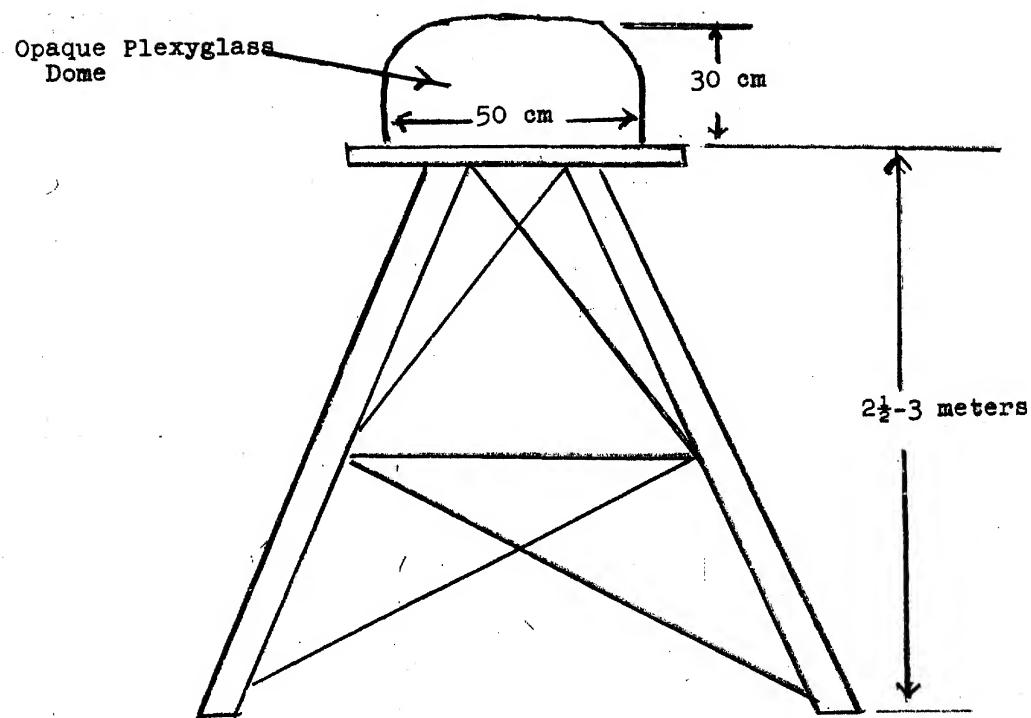
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[redacted] 25X1

Annex A - [redacted] Sketch of Type-1 Radar

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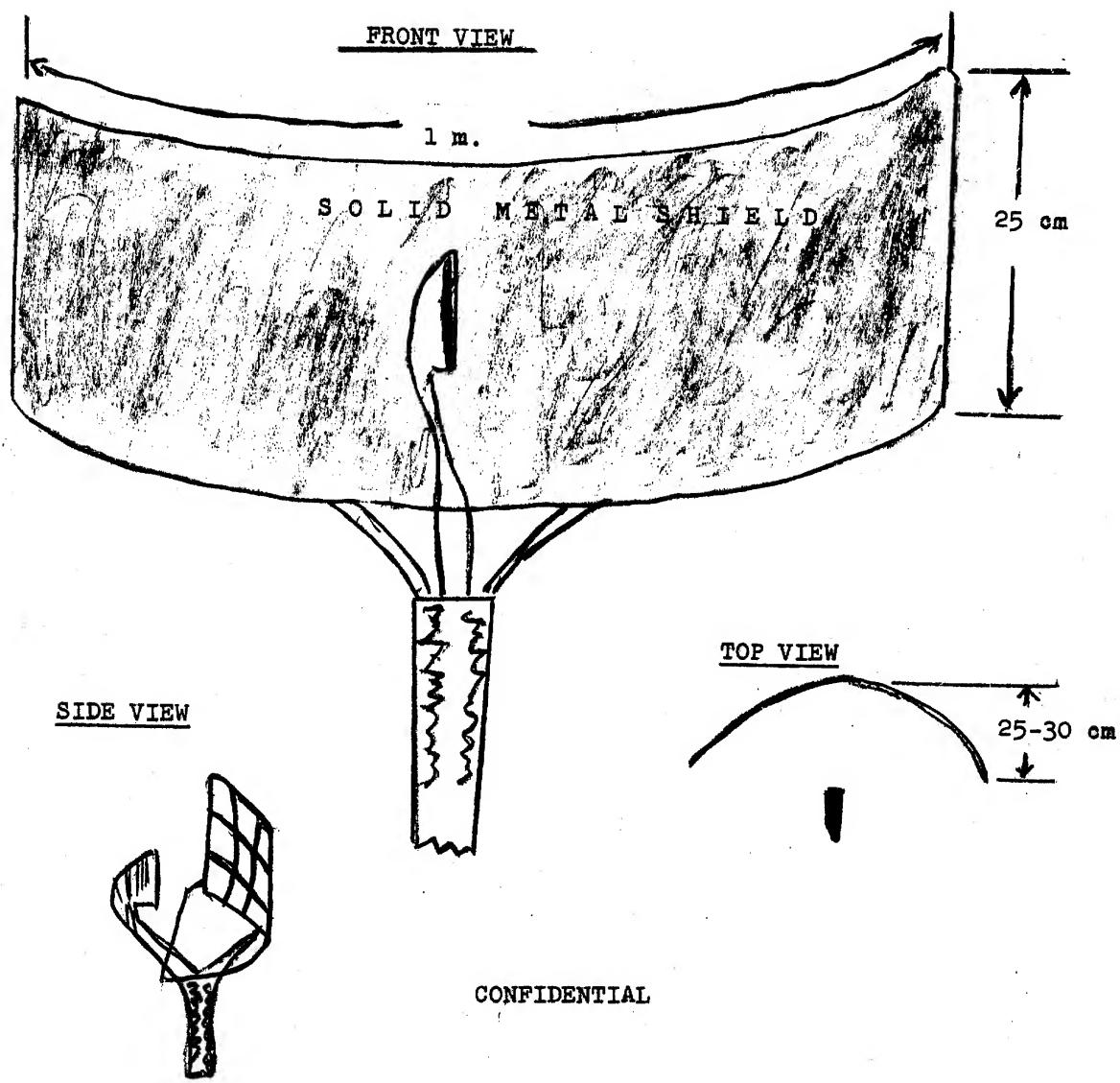
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[redacted] 25X1

Annex B - [redacted] Sketch of Type-2 Radar

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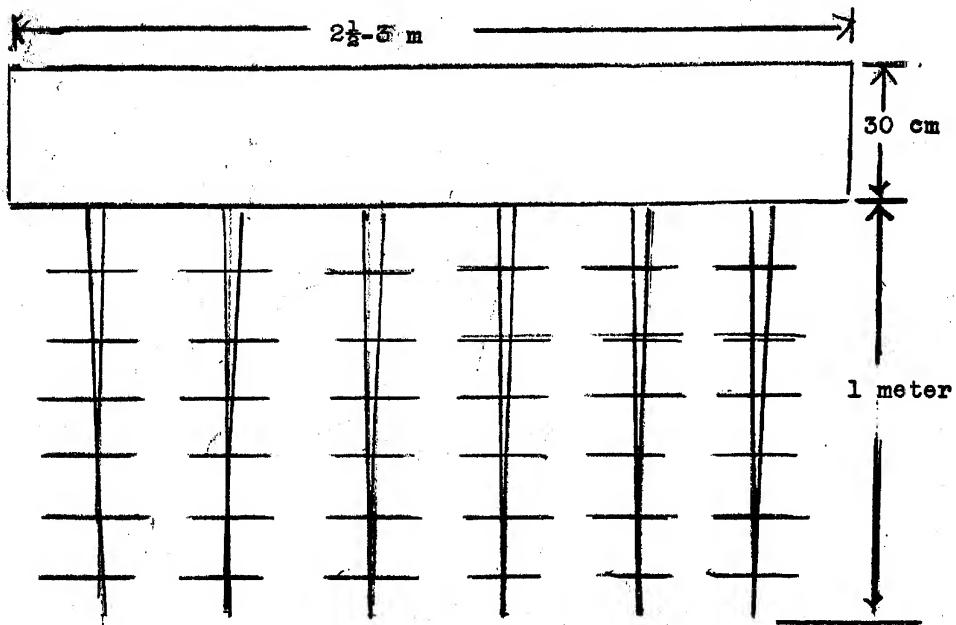
[redacted]

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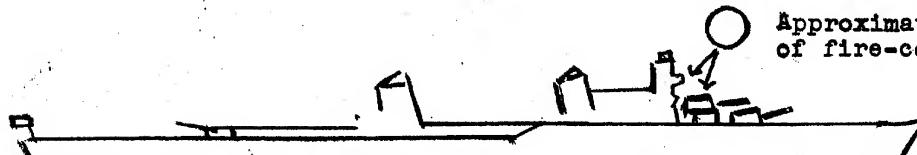
Annex C - [redacted] Sketch of Type-3 Radar

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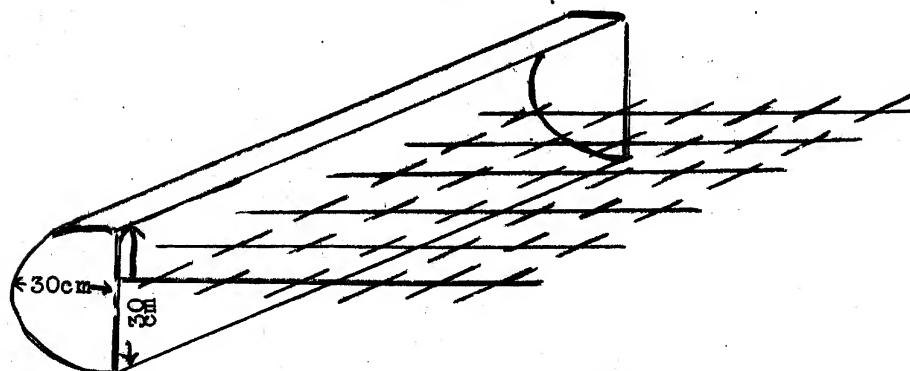
TOP VIEW



Approximate position  
of fire-control radar



Heavy Cruiser "KAGANOVICH," (Kirov Class) Poti USSR - Sep 1953



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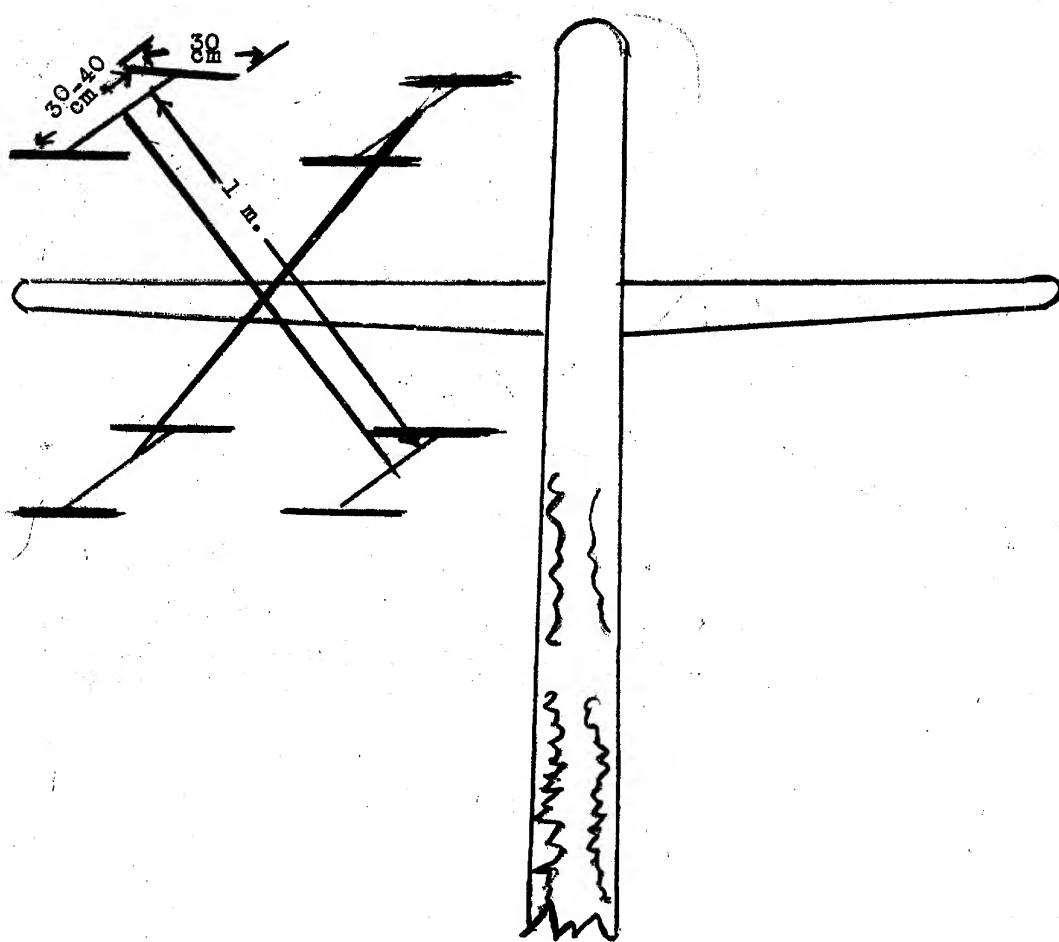
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[redacted] 25X1

Annex D - [redacted] Sketch of Type-4 Radar

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